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By: Lewis J. Kreisler Date: 1/14/04

Lewis J. Kreisler
Reg. No. 38522

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Shalini Sharma, et al.	Atty. Ref.:	18015-D2
Appl. No.:	10/684,660	Group Art Unit:	1624
Filed:	October 14, 2003	Examiner:	S. Patel
Title:	COMPOUNDS FOR THE TREATMENT OF METABOLIC DISORDERS		

* * * * * * * *

January 14, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Examiner is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are in the parent application serial number 10/167,839 and are therefore not being submitted with this Information Disclosure Statement.

This Communication is being filed within three months of the filing date or before the mailing of a first Office Action on the merits. Consideration of this Statement is respectfully requested.

The documents WO 97/30017 and WO 98/07681, which are not in the English language each contain an English-language abstract. In addition, each of them contains chemical structures that use Latin characters and are not language specific.

It is believed that no fee is required in connection with the filing of this Statement. If any fee is required, the Commissioner is hereby authorized to charge the amount of such fee to Deposit Account No. 50-1677.

Respectfully submitted,

Lewis J. Kreisler
Reg. No. 38522
Attorney for Applicant(s)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 10

Complete if Known	
Application Number	10/684,660
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number - Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4,845,231	07-04-1989	Kees	
		US- 5,948,803	09-07-1999	Maeda, et al.	
		US- 5817693 (abstract)			
		US- 4011321 (abstract)			
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		WO 02/59077 (abstract)				
		WO 02/14291 (abstract)				
		WO 02/02119 (abstract)				
		WO 01/81340 (abstract)				
		BR 9802163 (abstract)				
		JP 01/181281 (abstract)				
		WO 00/23409 (abstract)				
		WO 99/62520 (abstract)				
		WO 98/25608 (abstract)				
		JP 10130241 (abstract)				

Examiner Signature		Date Considered	

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[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 10

Compl te if Known	
Application Number	10/684,660
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D2

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		WO 98/08836 (abstract)				
		WO 95/13262 (abstract)				
		WO 94/27993 (abstract)				
		WO 93/08799 (abstract)				
		JP 04159266 (abstract)				
		EP 407891 (abstract)				
		EP 393400 (abstract)				
		JP 01063570 (abstract)				
		WO 88/08418 (abstract)				
		EP 288190 (abstract)				

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Sheet 3 of 10

Complete if Known	
Application Number	10/684,660
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D2

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		JP 61040270 (abstract)				
		JP 55015460 (abstract)				
		GB 1488330 (abstract)				
		JP 52025734 (abstract)				
		DE 2527066 (abstract)				
		DE 2459468 (abstract)				
		FR 2191887 (abstract)				
		JP 47025149 (abstract)				
		JP 56115747 (abstract)				
		DE 3012012 (abstract)				

Examiner Signature		Date Considered	

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Sheet 4 of 10

Complet if Known	
Application Number	10/684,660
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D2

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		JP 50014653 (abstract)				
		DE 2512673 (abstract)				
		DE 1929165 (abstract)				
		ZA 6705655 (abstract)				
		WO 97/30017	08-21-1997	Shinkai, et al.		
		WO 98/07681	02-26-1998	Moinet, et al.		
		WO 99/62520	12-09-1999	Young, et al.		
		EP 71399	02-09-1983	Tsung, et al.		
		WO 92/12123	07-23-1992	Schirlin, et al.		
		WO 00/63161	10-26-2000	Kolb, et al.		

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Sheet 5 of 10

Complet if Known	
Application Number	10/684,660
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Group Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D2

NON PATENT PUBLICATIONS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		Karche, et al., "Electronic Effects in Migratory Groups...", Journal of Organic Chemistry, Vol. 66, No. 19, pages 6323-6332, 2001. (Abstract)	
		Poupardin, et al.,"First approach to the cycloisodityrosine unit of RA-IV", Tetrahedron Letters, Vol. 42, No. 8, pages 1523-1526, 2001. (Abstract)	
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		Wu, et al., "Improvement on the preparation of .beta.-keto esters", Huaxue Shiji, Vol. 20, No. 6, pages 376-377, 1998. (Abstract)	
		Wu, et al., "Total syntheses of furoguaiacin and related analogs", Huaxue Yanjiu Yu Yingyoung, Vol. 9, No. 6, pages 595-599, 1997. (Abstract)	
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		Wu, et al., "A modification of the Knorr oxidative coupling method for preparation of 1,4-diketones", Synthetic Communications, Vol. 27, No. 2, pages 331-336, 1997. (Abstract)	
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		Maruyama, et al., "A synthesis of (.+-.)-pinoresinol and its related compound using potassium persulfate (K2S208) oxidation of benzoylacetates", Heterocycles, Vol. 37, No. 2, pages 839-845, 1994. (Abstract)	
		Rao, et al., "Studies on cyclodepsipeptides. Part II. The total synthesis of jaspamide and geodiamolide-D", Tetrahedron Letters, Vol. 34, No. 44, pages 7085-7088, 1993. (Abstract)	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 6 of 10

Complete if Known	
Application Number	10/684,660
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Group Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D2

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		Colotta, et al., "Tricyclic heteroaromatic systems...", Farmaco, Vol. 46, No. 10, pages 1139-1154, 1991. (Abstract)	
		Dillard, et al., "(Phenylmethoxy) phenyl derivatives of w-oxo- and w-tetrazolylalkanoic acids...", J. Med. Chem., Vol. 34, No. 9, pages 2768-2778, 1991. (Abstract)	
		Bose, et al., "Synthesis of 4-phenylcoumarins from Dalbergia volubilis and Exostema caribaeum", Phytochemistry, Vol. 30, No. 7, pages 2438-2439, 1991. (Abstract)	
		Bose, et al., "Synthesis of 4-phenylcoumarins", Indian J. Chem., Sect. B, Vol. 29B, No. 5. pages 422-444, 1990. (Abstract)	
		Colotta, et al., "Tricyclic heteroaromatic systems...", J. Med. Chem., Vol. 33, No. 9, pages 2646-2651, 1990. (Abstract)	
		Kameo, et al., "Studies on hypolipidemic agents, IV. 3-[4-(Phenylthio) benzoyl] propionic acid derivatives", Chem. Pharm. Bull., Vol. 37, No. 5, pages 1260-1267, 1989. (Abstract)	
		Colotta, et al., "Tricyclic heteroaromatic systems: synthesis..." J. Pharm. Sci., Vol. 78, No. 3, pages 239-242, 1989. (Abstract)	
		Tanaka, et al., "Total synthesis of coumarinolignans, aquillochin (cleomiscosin C) and cleomiscosin D", Chem. Pharm. Bull., Vol. 36, No. 10, pages 3833-3837, 1988. (Abstract)	
		Parmar, et al., "Synthesis of new naturally occurring 4-phenyl-2H-1-benzopyran-2-ones", Bull. Chem. Soc. Jpn., Vol. 61, No. 6, pages 2277-2279, 1988. (Abstract)	
		Colotta, et al., "The correct synthesis of 2,3-dihydro-2-aryl-4-R-[1] benzopyrano [4,3-c] pyrazole-3-ones", Tetrahedron Letters, Vol. 28, No. 43, pages 5165-5168, 1987. (Abstract)	
		Tanaka, et al., "Total synthesis of daphneticin, a coumarinolignoid", Chem. Pharm. Bull., Vol. 34, No. 2 pages 628-632, 1986. (Abstract)	

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First Named Inventor	Shalini Sharma
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Examiner Name	Sudhaker Patel
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		Ahluwalia, et al., "Synthesis of stevenin and melanettin", Symp. Pap.- IUPAC Int. Symp. Chem. Nat. Prod., 11th, Volume 3, pages 11-13, 1978. (Abstract)	
		Yamaguchi, "Degradation of protolignin with metallic sodium in liquid ammonia", Ringyo Shikenjo Kenkyu Hokoku, Vol 281, pages 1-78, 1976. (Abstract)	
		Okumura, et al., "Synthesis of chromone-3-carboxanilides", Chem. Pharm. Bull., Vol 22, No. 2, pages 331-336, 1974. (Abstract)	
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		Iwasa, et al., "The preparation of the biosynthetic precursor 3,7-dihydroxy-2, 6-dimethoxyphenthroindolizidine", J. Nat. Prod., Vol. 51, No. 1, pages 172-175, 1998. (Abstract)	
		Wong, et al., "Wedelolactone and coumestan derivatives as new antihepatotoxic and antiphlogistic principles", Arzneim.-Forsch., Vol. 38, No. 5, pages 661-665, 1988. (Abstract)	
		Witiak, et al., "Synthetic aci-reductiones. 3,4-Dihydroxy-2H-1-benzopyran-2-ones and their cis- and trans-4a, 5,6,7,8,8a-hexahydro diastereomers", J. Med. Chem., Vol. 31, No. 7, pages 1437-1445, 1988. (Abstract)	
		Entzeroth, et al., "Preparation of 3- (3-indolyl) Lactic acids...", Liebigs Ann. Chem., No. 2, pages 226-230, 1983. (Abstract)	
		Bhakuni, et al., Biosynthesis of tylophorine and tylophorinine", Tetrahedron, Vol. 37, No. 2, pages 401-407, 1981. (Abstract)	
		Naidu, et al., "Debenzylation by nickel-aluminum alloy", J. Indian Inst. Sci., Vol. 62, No. 10, pages 177-180, 1980. (Abstract)	
		Oka, et al., "Syntheses of N-heterocyclic compounds. XXVI. Syntheses of pyrido [3,4-d] pyridazine derivatives", Chem. Pharm. Bull., Vol. 23, No. 10, pages 2306-2317, 1975. (Abstract)	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8 of 10

Complete if Known	
Application Number	10/684,660
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Group Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D2

NON PATENT PUBLICATIONS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		Saunders, et al., "Syntheses of carbon-14-labeled prizidilol dihydrochloride", J. Labelled Compd. Radiopharm., Vol. 22, No. 9, pages 869-881, 1985. (Abstract)	
		Arnoldi, et al., "Synthesis and sweet taste of some 2-phenylbenzodioxanes", J. Agric. Food Chem., Vol. 34, No. 2, pages 339-344, 1986. (Abstract)	
		Winters, et al., "Synthesis and pregnancy terminating activity of pyrazolo [1,5-a] indoles and quinolines", Eur. J. Med. Chem.--Chim. Ther., Vol. 19, No. 3, pages 215-218, 1984. (Abstract)	
		Herbert, et al., "Biosynthesis of phenanthroindolizidine alkaloids: incorporation of 2-pyrrolidin-2-ylacetophenone and benzoylacetic acid and derivatives", J. Chem. Soc.,Perkin Trans.1, No. 4., pages 825-831, 1984. (Abstract)	
		Toja, et al., "Synthesis and pregnancy terminating activity of 2-arylpyrazolo [5,1-a] isoindoles and -isoquinolines", Eur. J. Med. Chem. -Chim. Ther., Vol. 17, No. 3, pages 223-227, 1982. (Abstract)	
		Ahluwalia, et al., "An unambiguous synthesis of melannein", Indian J. Chem., Sect. B, Vol. 21B, No. 3, pages 186-188, 1982. (Abstract)	
		Pelter, et al., "Synthesis and NMR spectra of 2,6- and 2,4-diaryl-3,7-dioxabicyclo [3.3.0] octanes", J. Chem. Soc., Perkin Trans. 1, No. 1, pages 183-190, 1982. (Abstract)	
		Mangla, et al., "Synthesis of substituted 6,7-diphenyl-1,2,3,5,8,8a-hexahydroindolizines", Indian J. Chem., Sect. B, Vol. 19B, No. 11, pages 931-937, 1980. (Abstract)	
		Mangla, et al. "Synthesis of tylophorine", Tetrahedron, Vol. 36, No. 17, pages 2489-2490, 1980. (Abstract)	
		Ahluwalia, et al., "A novel synthesis of 4-phenylcoumarins having a free hydroxyl group in the phenyl ring: synthesis of melanettin and stevenin", Heterocycles, Vol. 14, No. 9, pages 1329-1330, 1980. (Abstract)	
		Charlton, et al., "The synthesis of 2-methylchromone-3-carboxylic acid", J. Heterocycl. Chem., Vol. 17, No. 3, pages 593-594, 1980. (Abstract)	

Examiner Signature		Date Considered	

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		Liu, et al., "The New Antidiabetic Drug MCC-555 Acutely Sensitizes Insulin Signaling in Isolated Cardiomyocytes", Endocrinology, Vol 139, No. 11, pages 4531-4539, (1998).	
		Kees, et al., "Perfluoro-N-[4-(1 H-tetrazol-5-ylmethyl) Phenyl]-alkanamides. A New Class of Oral Antidiabetic Agents", Journal of Medicinal Chemistry, Vol. 32, pages 11-13, (1989).	
		Shinkai, et al. "4-(trans-4-Methylcyclohexyl)-4 Oxobutyric Acid (JTT-608). A New Class of Antidiabetic Agent", Journal of Medicinal Chemistry, Vol 41, No. 27, pages 5420-5428, (1998).	
		Abstract 560-P, Hodge, et al. "PN2022: Antidiabetic Efficacy and Reversal of Steatohepatitis in ob/ob Mice", Diabetes, Abstract Book 62nd Scientific Sessions, Vol. 51 Suppl. 2, page A139, June 2002.	
		Abstract 561-P, Hodge, et al., "PN2034: Orally Active Antidiabetic Agent with a Unique Spectrum of of Activity and Enhanced Safety Profile", Diabetes, Abstract Book 62nd Scientific Sessions, Vol. 51 Suppl. 2, page A139, June 2002.	
		Abstract 568-P, Lu, et al., "A Novel Antidiabetic Agent That Is a Selective PPAR Modulator", Diabetes, Abstract Book 62nd Scientific Sessions, Vol 51, Suppl. 2., page A141, June 2002.	
		Abstract 586-P, von Borstel, et al. "PN2034: Reversal of Insulin Resistance and Attenuation of Weight Gain in Mice on a High-Fat Diet", Diabetes, Abstract Book 62nd Scientific Sessions, Vol 51, Suppl. 2, page A145, June 2002.	
		Poster #560, Hodge, et al., "PN2022: Antidiabetic Efficacy and Reversal of Steatohepatitis in ob/ob Mice." Presentation at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14- 18, 2002 and corresponding to Abstract 560-P.	
		Poster #561, Hodge, et al., "PN2034: Orally Active Antidiabetic Agent with a Unique Spectrum of Activity and Enhanced Safety Profile", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 560-P.	
		Poster #568, Lu, et al., "PN2034-A Novel Antidiabetic Agent That Is a Selective PPAR Modulator", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 568-P.	
		Poster #586, von Borstel, et al., "PN2034: Reversal of Insulin Resistance and Attenuation of Weight Gain in Mice on a High-Fat Diet", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 586-P.	

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		Owada, et al., "Improved synthesis of tricin", Nippon Kagaku Zasshi, Vol. 91, No. 10, pages 1002-1003, 1970. (Abstract).	
		Veronese, et al., "Ozonolysis of derivatices of 7-hydroxytryptophan", Gazz. Chim. Ital., Vol. 97, No. 1, pages 18-24, 1967. (Abstract)	
		Kawamatsu, et al., Studies on antihyperlipidemic agents. Part 1. Synthesis and hypolipidemic activities of phenoxyphenylalkanoic acid derivatives", Arzneim. Forsch, Vol. 30, Issue 3, pages 445-459, 1980. (Abstract)	
		Chemical Abstract DN 132:22755, also cited as WO99/62520.	
		Chemical Abstract DN 126:74645, also cited as J. Chem. Soc., Parkins Transactions 1, Org & Bio-Org. Chem., 21, 2603-2613, 1996.	
		Chemical Abstract DN 117:251790, also cited as Wo 92/12123.	
		Chemical Abstract DN 113: 115839, also cited as Synthetic communications, 20/5,773-81, 1990.	
		Chemical Abstract DN 99: 122287, also cited as EP 71399.	
		Kawamatsu et al., Arzneim. Forsh., Vol. 30 ISS3, 454-459, 1980.	

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